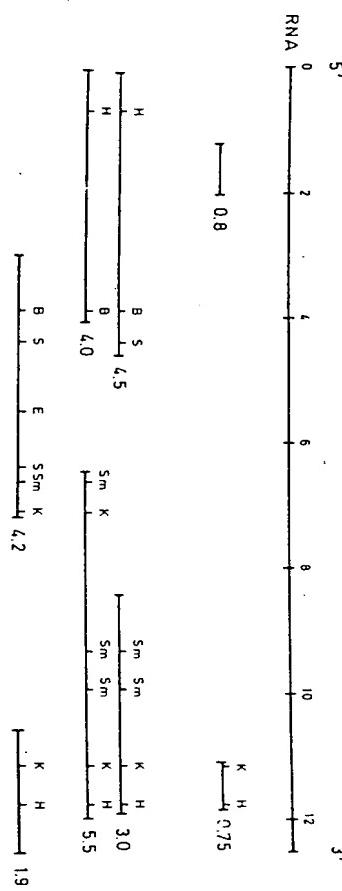


NA 184.1

Figure 1.



1 GTC AGC TCT TTC TCG TAT ACG ATA TTG GAT ACA CTA AAA TTC GAT TTG GTC TAG CGC ACC CCT CCA GCG ACC GCC GAA ATG GGC 4
85 TAG CCA TGC CCA TAG TAG GAC TAG CAA ACG GAG GGA CTA GGC GTC GCG ACC TCC CTC GGT GGT CTA ACT CCT GAG TAC AGG 164
169 ACA GTC GTC AGT AGT TCG AGC TGA GCA CTA GGC CAC CTC GAG ATG CTA CGT GCA CGA GGG CAT CCT GAA GCA ACA CCT TAA CCC 252
153 TGG CGG CGG TCG CTA GGG TGA AAT AAC ATT ATG TGA TGG GGG TAC GAC CTC ATA GGG TGC TAC AGA GGC CCA CTA GCA GGC TAG 136
137 TAT AAA AAT CTC TGC TGT ACA TGG CAC ATG GAG TGT AAT CAT TTT GAA TTA TTA TAC AAA ACA AGC AAA CAA AAA CCA GTC GGA 420
Met Glu Leu Alan His Pro Glu Leu Leu Tyr Lys Thr Ser Lys Glu Pro Val Gly 19
421 GTG GAG GAA CGG CGG GTG TAT GAC ACC GCG GGG AGA CCA CTA TTT GGG AAC CCA AGT GAG GAA GTC CAC CCA TCA AGC CTG AGG GTC 588
20 Val Glu Glu Pro Val Tyr Asp Thr Ala Gly Arg Pro Leu Phe Glu Alan Pro Ser Glu Val His Pro Glu Ser Thr Leu Lys Leu 47
1 505 CCA CAC GAC AGG AGA AGA GGA GAT ATC AGA ACA ACA CTC AGG GAC CTA CCC AGG AAA GGT GAC TGT AGG AGT GGC AAC CAA CTA 504
46 Pro His Asp Arg Dly Arg Dly Asp Ile Arg Thr The Leu Arg Asp Leu Pro Arg Lys Glu Asp Cys Arg Ser Glu Alan His Leu 75
589 GGC CGG GTT AGT GGG ATA TAC ATA AGG CCC GGC CTC GTC TAC TAT CAG GAC TAC AGC AGG CCA GTC TAT CAC AGA GCT CCT TTA 672
76 Gly Pro Val Ser Gly Ile Tyr Ile Lys Pro Glu Pro Val Tyr Tyr Glu Asp Tyr Thr Glu Pro Val Tyr His Arg Alan Pro Leu 103
673 GAG TTC TTT GAT GAO GCG CAG TTC TGC GAO GTC ACT AAG AGA ATA GGC AGG GTC AGC AGG AGT GAT GGT AGG GCT TAC CAC ATA 756
104 Glu Phe Pro Asp Glu Alan Glu Phe Cys Glu Val Thr Lys Arg Ile Gly Arg Val Thr Gly Ser Asp Glu Lys Leu Tyr His 131
757 TAT GTG TGC GTC GAT GGT TGC ATA CTC CTC AAA TTA GGC AAA AGG GGC ACA CCC AGA ACC CTA AAA AGG ATT AGG AAC TTC ACC 132
132 Tyr Val Cys Val Asp Glu Cys Ile Leu Leu Lys Arg Glu Thr Pro Arg Thr Leu Lys Trp Ile Arg Alan Phe Thr 159
840 AAC TGT CCA TTA TGG GTA ACC AGT TGC TCC GAT GAC GGC GCA AGT GGC AGC AGG GAT AGG AGG CCA GAC AGA ATG AAC AAA GGT 924
160 Alan Cys Pro Leu Trp Val Thr Ser Cys Ser Asp Glu Ala Ser Glu Ser Lys Asp Lys Pro Asp Arg Met Alan Lys Glu 187
925 AAG TTG AAG ATA GGC CCA AGA GAG CAT GAG AGG GAC AGG ACC AAG CCT CCT GAT GCA AGC ATT GAA GTC GAA AAA 1008
188 Lys Leu Lys Ile Alan Pro Arg Glu His Glu Lys Asp Ser Lys Thr Lys Pro Pro Asp Alan Thr Ile Val Glu Dly Val Lys 215
1009 TAC CAA ATC AAA AAG AAA GGC AAA GTC AAA GGG AGG AAC ACA CAA GAC GGC CGG TCG TAC CAT ATT AAC AAC AAG CCA GAC TCC 216
216 Tyr Glu Ile Lys Lys Lys Ile Alan Pro Arg Glu Lys Alan Thr Glu Asp Glu Lys Alan Tyr His Alan Lys Alan Lys Pro Pro Glu Ser 1092

1091 AGG AAG AAA CTA GAA AAA GCC CTC TGG CCT TGG CCC GTC ATA ATC TGG CTC TAC CAG CCT CTA GCA CCC GAG AAC ATA ACT 111
244 Arg Lys Leu Glu Lys Ala Leu Ala Val Ile Thr Ile Leu Tyr Glu Asn Ile Glu Asn Ile Thr
1177 CAA TGG AAC CTC AGT GAC AAC GGC ACT AAT GGT ATT CAG CGA GGC GCT AAC AGG CTT AGA GGG GTC TAA CAT GGG ATC 1181
272 Glu Trp Asn Leu Ser Asp Asn Glu Thr Asn Glu Ile Glu Arg Ala Met Tyr Leu Arg Glu Val Asn Arg Ser Leu His Glu Ile 299
1261 TGG CCC GAG AAA ATA TGG AAG GGA GTC GTC CCC ACT CAT CGT GGC ACT GAC AGC GAA CTC AAA GAG ATA CGC AGG ATG GAT CCC 1314
300 Trp Pro Glu Lys Ile Cys Lys Glu Val Pro Thr Glu Leu Ala Thr Asp Thr Glu Leu Lys Glu Ile Arg Glu Met Met Asp Ala 327
1345 AGC GAG AGA AAC TAC ACC TGC TGT AGG TTA CAA AGA CAT GAA TGG AAC AAA CAT GGA TGG TGT AAC TGG TAC AAC ATA GAC 1338
328 Ser Glu Arg Thr Asn Tyr Thr Cys Cys Arg Leu Glu Arg His Glu Trp Asn Lys His Glu Trp Cys Asn Trp Tyr Asn Ile Asp 353
1429 CCT TGG ATT CAG AAC GGC CCA ACA AAC TTO ACA GAA GGC CCT CCA GAT AAC GAG GAG TGC GCA GTC ACC TGC AGC TAT 1512
356 Pro Trp Ile Glu Leu Met Asn Arg Thr Glu Asn Leu Asp Val Pro Asp Lys Glu Cys Ala Arg Tyr Val Thr Cys Asn Tyr 381
1513 GAC AAA ATT ACC GAT GTC AAC GTC GTC ACC GAG GCC AGG ATT AGG CCA ACT ACT CTC ACT GGC TGC AGG AAA AAC TTT 1596
384 Asp Lys Asn Thr Asp Val Val Asn Arg Asn Arg Pro Thr Leu Thr Glu Cys Lys Lys Glu Lys Asn Phe
Ala
1597 TCA TTC GCA GGC ACA GTC ATA GAG GGC CGG TGC ATT AAC ATT TTC AAC ATT TCC GTC GAG GAG QAC ATC TTA TAC QGA GAC CAT GAG TGT GGC 1600
412 Ser Phe Ala Glu Thr Val Ile Glu Glu Lys Pro Cys Asn Phe Asn Val Ser Val Glu Asp Ile Leu Tyr Glu Asp His Glu Cys Glu 439
1681 ADP CTC CTC CAG AAC GAC CTC AGT ACC QCA GGG AAG AAC CTA GAG AGG AGA AGC AAA ACC TGG FTT GOT QCC TAT GCC CTC 1684
440 Ser Leu Leu Asp Thr Ala Leu Tyr Leu Leu Asp Glu Met Thr Asn Thr Ile Glu Asn Ala Arg Glu Glu Ala Asp Val 455
466 Thr Ser Trp Leu Glu Arg Glu Ile Ser Thr Ala Glu Lys Leu Glu Arg Arg Ser Lys Thr Trp Phe Glu Ala Tyr Ala Leu
1649 TCA CCT TAC TGC ATT ATT ACT ACA AAA ATA GGG TAC ATA TGG TAT ACA AAC AAC AAC ACC GCA TGC TCC CTC CTC AAC AAC ACA 1912
496 Ser Pro Tyr Cys Asn Val Thr Arg Lys Ile Glu Dly Trp Tyr Thr Asn Asn Cys Thr Pro Ala Cys Leu Pro Lys Asn Thr 523
1933 AAA ATA ATA GGC CCT GGA AAG ATT GAC ACC AAC GCG QAA GAC QGA AGG ATT CTC CAT QAA ATA GGG GGC CAC CTA TCA GAA TTT 2016
524 Lys Ile Ile Glu Pro Glu Lys Phe Asp Thr Asn Ala Glu Asp Glu Lys Ile Leu His Glu Met Glu Glu His Leu Ser Glu Phe 551
2019 TGG TGG CCT TCT CTA GTC ATT GTC ATT GAC TTT GCT CCC AAC GCA GTC AAC CTC ATT TPA GAC TAT GCA ATC CCC 2100
552 Leu Leu Ser Leu Val Ile Leu Ser Asp Phe Ala Pro Glu Thr Ala Ser Thr Leu Tyr Leu His Tyr Ala Ile Pro 579

2101 CAG TCC CAC GAA GAA CCT GAA GGT TGT GAT ACG AAC CAA CTT AAC CTA ACA GTG AAA CTT AGG AGA GAA GAC GAA GTC GAA GCA TCA 2144
580 Glu Ser His Glu Glu Pro Glu Gly Cys Asp Thr Alan Glu Leu Asn Leu Thr Val Lys Leu Arg Thr Glu Asp Val Val Pro Ser 607
2145 TCA GGT TGG AAC ATT GGC AAA TAT GGT TGT GAT GTC GAA CCT AAC GAC TGG TGG CCG TAT GAA ACT AAC GTC GCT CGG CTG TTT GAA GAG 2268
601 Ser Val Trp Asn Ile Gly Lys Tyr Val Cys Val Arg Pro Asp Trp Trp Pro Tyr Glu Thr Lys Val Ala Leu Leu Phe Glu Glu 615
2169 GCA CGA CAG GGT ATA AAC CTA GTC CTA CGG GCA CGT AGG GAT TTA ACT AGG GTC TGG AAC AGC GCA TCA ACT ACT GCG TTT CTC 2352
636 Ala Glu Glu Val Ile Lys Leu Val Arg Ala Leu Arg Asp Leu Thr Arg Val Trp Alan Ser Ala Ser Thr Thr Ala Phe Leu 663
2173 ATG TGC TTG ATA AAA GAA GAA TTG AGCA GAG GGT GTO CAA GGT ATA ATA TGA CGG CGT CGT CGT ACC GGG GAA GGG CGG CTA 2436
664 Ile Cys Leu Ile Lys Val Leu Arg Gly Glu Val Val Glu Ile Trp Leu Leu Val Thr Gly Ala Glu Glu Arg Leu 691
2177 GCC CCT AAC GAA GAC TAC AGG TAT GCG ATC TCG TCA ACC AAC GAG ATA GAA CGT CGT GGC GCT GAA GGT CGC ACC ACT ACC TGG 2520
692 Ala Cys Lys Glu Asp Tyr Arg Tyr Ala Ile Ser Ser Thr Alan Glu Ile Gly Leu Leu Glu Ala Glu Ile Gly Leu Thr Thr Trp 719
2521 AAA GAA TAC AGC AAC GAC GGT TTG CAG CTG GAC GCA ACC GTT AAG GCC dTC TOC ACT GCA CGG TCC TTT AAA GTC ACA GCA CTT 2604
720 Lys Glu Tyr Ser His Glu Leu Glu Leu Asp Asp Glu Thr Val Lys Ala Val Cys Thr Ala Glu Ser Phe Lys Val Thr Ala Leu 747
2605 AAC CTG GTT AGT AGG AGG TAT CTA GCA TGG CAC GCA TGG AGG GCT CTA CCC ACC TCA CGT ACA TTT GAG CTC CTA TTT GAC GGA 2684
748 Alan Val Val Ser Arg Arg Tyr Leu Alan Ser Lys Arg Ala Leu Pro Thr Ser Val Thr Phe Glu Leu Leu Phe Asp Glu 775
2689 ACC AAC CCA GCA ARC GAG GAO ATG GAA GAT GAC TTC GCA TTT CGA TCC CTA TTT GAC CGG AGT CCT GNG ATC AAA GGG AAG 2772
776 Thr Alan Pro Ala Ile Glu Glu Met Asp Asp Phe Glu Asp Asp Phe Asp Thr Ser Phe Asp Thr Ser Phe Val Ile Lys Glu Lys 801
2773 TAC AAC ACC ACT TGG TTA AAC GGC AGT GCT TGC TAT CTA GTC TGC CCA ATA GGA TGG ACT GGT GTC GTA GAA TCC ACA GCA GTG 2856
804 Tyr Alan Thr Thr Leu Leu Alan Glu Ser Ala Ile Tyr Leu Val Cys Pro Ile Glu Trp Thr Glu Val Val Glu Cys Thr Alan Val 831
2857 AGC CCC ACA ACC TGG AGA ACA GAA GTG GTG AAA ACC TTC AGG AGA GAT AAG CCT TTT CCA CAT AGA GTA GAC TGT ATG ACC ACC 2940
832 Ser Pro Thr Thr Leu Arg Thr Glu Val Val Lys The Phe Arg Arg Asp Lys Pro Phe Pro His Arg Val Asp Cys Val Thr Thr 859
2941 ATA GAA AAA GAA GAC CTA TTC CAT TAC AAC TGG DGA GAT AAC TGG AGA TGT GAA AAA GGC GAC CCA GTC ACT TAT AAG GGA 3024
860 Ile Val Glu Lys Glu Asp Leu Phe His Cys Lys Leu Glu Ile Alan Trp Thr Cys Val Lys Glu Asp Pro Val Thr Tyr Lys Glu 887
3025 GGG CAA GAA GAA GAA GAC AGG TGG TAT GGT TGC TGG TTT AAA GAA CCC TAC CGG CGC CCA CAC TAC CEF APA GGC AAG TCC ATC 3108
888 Glu Glu Val Lys Glu Cys Arg Trp Cys Glu Phe Lys Glu Pro Trp Glu Cys Glu Phe Lys Glu Pro His Tyr Pro Ile Glu Lys Cys Ile 915

PRINT OF DRAWING
AS ORIGINALLY FILED

1109 CTA ACA AAT GAG ACA GGT TAC AGG GTC GAA GTC TCC AAC GCA QAT GGC GTC GTT ATT AGG ACT GAA GGG CAT 319
916 Leu Thr Asn Glu thr Gly Tyr Arg Val Val Val Asp Ser Thr Asp Cys Asn Arg Asp Glu Val Ile Ser Thr Glu Glu His 943

3191 GAG TGC TTG ATT GGC AAC ACT ACC GTC AAC GTC GAT GCA CTC GAT GAA AGA TGG AGC CCT ATG CCG TGC AGA CCC AAA GAA ATC 327
944 Glu Cys Leu Ile Glu Asn Thr Val Lys Val His Ala Leu Asp Glu Arg Leu Glu Pro Met Pro Cys Arg Pro Lys Glu Ile 971

3277 GTC TCT AGT GAG GGA CCT TCT TGT ACA TTC AAC TAC ACA AAG ACT CTA AGA AAC AAA TAC TAT Glu CCC AGA 336.
972 Val Ser Ser Glu Gly Pro Val Asp Lys Thr Ser Cys Thr Phe Asn Tyr Thr Lys Thr Leu Arg Asn Lys Tyr Tyr Glu Pro Arg 999

3361 GAC AGT TAC TTC CAG CAA TAT ATG CTC AAC GGC GAO TAT CAA TAC TGG TTT ATT CTG GAC GTC ACC DAC CAC ACA GAC TAC 144.
1000 Asp Ser Tyr Phe Glu Gln Tyr Met Leu Lys Glu Tyr Glu Tyr Glu Tyr Glu Asn Leu Asp Val Thr Asp His His Thr Asp Tyr 1037

3445 TTT GCC GAG TTT GTC TGG GTC GAA GTC GCA CTC TTA GGA GGA AGG TAC GTC ATT CGG CTA ATA GTC ACC TAC ATA ATT CTA 3528
1028 Phe Ala Glu Phe Val Val Val Val Val Ala Leu Leu Lys Glu 1035

3529 ACA GAG GAG CTC GCT GCT GGT CTA CAQ CTA GAC CAG CTC GCA ATT GCA ATT GCA ATT GCA ATT GCA ATT GAG 3612
1056 Thr Glu Glu Leu Ala Ala Glu Leu Glu Leu Glu 1063

3613 GTC GTC GTC TAC TTC CTA CTC TAC TTA GTC GAA AGA GAA CCC ATA AAA TGG ATA CTC CTC ATT CAT GCA ATG 3666
1084 Val Val Val Tyr Phe Leu Leu Leu Tyr Leu Val Ile Arg Glu Pro Ile Lys Lys Tyr Ile Leu Leu Leu Pro His Ala Met 1111

1697 ACT AAC AAT CCA GTC AAC ACC ATA ACA GTC QCA QCA TGG CTA AGG ATC AGG GGT GCC AGG AGG AGG ATA GAT GGT GGT GCG 3760
1112 Thr Asn Asn Pro Val Lys Thr Ile Thr Val Ala Leu Met Ile Ser Asp Val Ala Lys Glu Glu Glu Lys Ile Asp Glu Glu Trp 1139

3781 CAG AGA CAA CGG GTC ACC AGT TTT GAC ATC CAA CTC GCA CTC QCA QTC QTC QTA GTC QTC QTC ATT GTC ATT TGG CTC GCA AAG AGA GAC 3864
1140 Glu Arg Glu Pro Val Thr Ser Phe Asp Ile Glu Leu Ala Leu Ala Val Val Val Val Val Met Leu Leu Ala Lys Arg Asp 1167 }

3865 CGC ACT ACT TTC CCT TGG GTC ATC ACA GTC GCA ACC AGC ACC AGG ATA ACC AAC GGT TTT AGC AGA GAT CTA GTC ATA 3944
1166 Pro Thr Phe Pro Leu Val Val Ile Thr Val Ala Lys Thr Leu Arg Thr Ala Lys Ile Thr Alan Glu Phe Ser Thr Asp Leu Val Ile 1195

3949 GCG ACA GTC TCG GCA GCT TGG TTA ACT TGG ACC TAT ATC AGC GAC TAC TAC AAA TAC AAC ACT TGG CTA CAG TAC CTC GTC AGC 4032
1196 Ala Thr Val Ser Ala Ala Leu Leu Thr Thr Tyr Lys Val Ser 1223

4033 AGC GTC ACT GGA ATC TTC CTC GCG ATA AGG GTC CTC AGG GAA GTC GAA TGG Val Leu Arg Val Leu Lys Glu Leu Asp Leu Pro Thr Leu Pro Ser His Arg 4116
1224 Thr Val Thr Glu Ile Phe Leu Ile Arg Val Leu Lys Glu Ile Glu Leu Lys Glu Leu Lys Glu Leu Asp Leu Pro Thr Leu Pro Ser His Arg 1251

PRINT OF DRAWING
AS ORIGINALLY FILED

4117 CCC CTC TTT TAC ATC CTT GTC TAC CTT ATT TCC ACT GCC GTG GAA ACT AGA TGG ATT CTC GAC GTC GAA TGC TTG CTC CAG 4100
1252 Pro Leu Phe Tyr Ile Leu Val Tyr Leu Ile Ser Thr Ala Val Val The Arg Trp Asn Leu Asp Val Ala Gly Leu Leu Leu Glu 1253
4201 TGG GTC CCA ACT CTT TTA ATG GTT TTT ACC ATG TGG GCA GAC ATT CTC ACC CTA ATT CTC ATT CCT ACT TAT GAG TTA ACA 4204
1260 Cys Val Pro Thr Leu Met Val Phe Thr Met Trp Ala Asp Ile Leu Thr Leu Ile Leu Pro Thr Tyr Glu Leu Thr
4245 TTA TAC TAC CTT ATG GAA GTG GCA GAA GGT TGG TCG TGG AAA ACT AAC TAT AAG AGG GAA AAC GAC ATC 4246
1308 Lys Tyr Tyr Leu Lys Glu Ile Asp Ile 1309
4369 TAC GAG GTC GAC CAA ACT AGC GAA GGG GTT TAC CPT TTC CCT TCT AAA GAA AGG AGC ACC GCT ATA ACT AGC ATG TTG CCA 4452
1336 Tyr Glu Val Asp Glu Thr Ser Glu Glu Val Tyr Leu Phe Ser Lys Ala Arg Thr Ser The Met Leu Pro 1363
4453 TTA ATC ASA GCA ATA CTC ATT AGC TGC ATC AGC AAC TGG TGA CTC ATA TAC TTA CTG TAC TGG ATA TTT GAA GTG TCT TAC 4516
1364 Lys Ile Lys Ala Ile Leu Ile Ser Cys Ile Ser Asn Lys Trp Glu Leu Ile Tyr Leu Leu Tyr Leu Ile Phe Glu Val Ser Tyr 1391
4517 TAC CTC CAC AAG AAA GCT ATA GAT GAA ATA GAT GCT GGT CGG ACC AAC TGC TGT TCA AGG CTC GCG GCT TGG ATT GAA GTC AAT 4620
1392 Tyr Leu His Lys Lys Val Ile Asp Glu Ile Ala Glu Ile Ala Glu Ile Ala Glu Ile Ala Leu Ile Glu Val Asn 1419
4621 TGG GCC TTC AAC GAA GCA GTC TAA AAC DGC TTA AAC GAG TGC TGT AAC GCG TGG ATC ATC AAA CAC 4704
1420 Trp Ala Phe Asp Asn Glu Val Lys Glu 1447
4705 AAA GTO AGG AAT GAA GCA GTO GTC CGC TGG TTT GCA QAT GAA IAG ATT ATT GGG ATG CCA AAC CTC ATC GGC TTA GTC ATT AGG GCA 4784
1444 Lys Val Arg Asn Glu Val Val Val Arg Trp Phe Glu Asp Glu Glu Ile Tyr Glu Met Pro Lys Leu Ile Glu Leu Val Lys Ala 1473
4789 GCA ACA CTA ATG AGA AAC AAC GAC TAT ACC GTC TGT TGG GAC AGA GAT GAG GAA ACT TGC CCT AAA TGT 4872
1476 Ala Thr Leu Ser Arg Asn Lys His Cys Met Leu Cys Thr Val Cys Glu Asp Arg Asp Trp Arg Glu Glu Thr Cys Pro Lys Cys 1503
4871 GGG CGT TTT GGA CCA CCA GTO GTC TGC CGT ATT ACC CTA GCC QAT PTC GAA AAA CAC TAT AAA AGG ATT TIC ATT AGA GAG 4954
1504 Glu Arg Phe Glu Pro Val Val Val Cys Glu Met Thr Leu Ala Asp Phe Glu Glu Lys Glu Tyr Glu Ile Phe Ile Arg Glu 1511
4957 GAC CAA TCA QGC GGG CCA CTT AGG GAG CAT GCA GGG TAC TTO CAG TAC AAA GCC AGG GGT CAA CTC TTT TTG AGG AAC CTC 5040
1532 Asp Glu Ser Glu Glu Pro Leu Arg Glu Glu His Ala Glu Tyr Leu Glu Tyr Lys Ala Arg Glu Glu Leu Arg Asn Leu 1559
5041 CCA GTO TTA GCT AGA AAA GTC AGG ATG ATG CTC CTT GGT GAA AAC GAG ATT GGG GAT CTC GAA CAC CTT GGC TGG GTC 5124
1560 Pro Val Leu Ala Thr Tyr Val Asp Met Leu Val Val Asp Glu His Leu Glu His Leu Glu His Leu Glu His Leu Glu Trp Val 1567

PRINT OF DRAWING
AS ORIGINALLY F

5125 CTT AGA GGG CCA CCT GGT TGC AAG AAC TCC ACC AGC TCT ATA ATG DAT AAC TGA ACT GCT TCC TTT
1588 Leu Arg Glu Pro Ala Val Cys Lys Val Thr Glu Arg Cys Thr Ser Ile Met Arg Lys Leu Thr Ala Phe Pro
1616 Glu Val Met Pro Arg Gly Thr Pro Arg Ala Pro Val Arg Phe Pro Thr Ser Leu Lys Ile Arg Arg Glu Leu Thr
5209 GGA GTA ATG CCA AGG GGC ACT ACT CCC AGA GCT CCC GTC CTC CTA AAG ATA AGA AGA CGG CGG GAG ACT
1644 Glu Arg Trp Ala Tyr Thr His Glu Glu Ile Ser Ser Val Asp His Val Thr Cys Glu Lys Asp Leu Val Cys Asp Thr Met
5233 GAT TGG GCT TAC ACA CAC CAA GGT GGC AGC TCA GTC GAC CAT GTC ACT TGT GGG AAA GAC TTA CTG ATG TGT GAC ACC ATG
1672 Glu Arg Thr Arg Val Val Cys Glu Ser Alan Alan Lys Asp Thr Asp Glu Ser Glu Tyr Glu Val Lys Thr Asp Ser Glu Cys Pro
5261 GAG GGA GCG AGG TGT TAC GTC ATT AAC CCC GAA GGT AAC ATA TCA GGC ACT AAA GGA GGC ATG QTC CAC TTA CAG AAA AGC
1700 Glu Glu Ala Arg Cys Tyr Val Phe Asn Pro Glu Ala Val Asn Ile Ser Glu Thr Lys Glu Ala Met Val His Leu Glu Lys Thr
5245 GAT GGA GAA TGC ACC TGT GCG AGC GCA TCA GGA ACC CGG GCC TTC TTT GAC CTC AAC AAC CTT AGG CGG TGG TCA GGG CTA CGG
1724 Glu Glu Glu Phe Thr Cys Val Thr Ala Ser Glu The Pro Ala Phe Asp Leu Lys Asn Leu Lys Glu Tyr Ser Glu Leu Pro
5262 GAA TTT GAA GCA TCA AGT GGA AGG GTC GCA AGG GTC AAC GTC GGG AAC AAC GAG GAT TCC AAA CCA ACC AAG CTC ATG ATG
1756 Ile Phe Glu Ala Ser Ser Glu Arg Val Val Glu Arg Val Lys Val Glu Lys Asn Glu Asp Ser Lys Pro Thr Lys Leu Met Ser
5273 GGG ATA CAA AGC GGT TGT AAC AGC TTG AGC GAA ATG ATG AAC AGC AGC AAC AGG AAC ACC ATG AAC ACC ATG AAC AGG
1784 Glu Ile Glu Thr Val Ser Ser Ala Thr Asp Leu Thr Glu Met Val Lys Ile Thr Thr Met Arg Glu Glu Phe Arg
5297 GAA ATA ACC CTC GGC ACA GGT GGC GGA ATA ACT ACA GAG CTC CCT AGA GAG ATA GGA AGG CAT AGG AGG GTG
1812 Glu Ile Thr Leu Ala Thr Glu Ala Glu Lys Thr Thr Glu Leu Pro Arg Ser Val Ile Glu Glu Ile Glu Arg His Lys Arg Val
5361 TGG GTC TTA ATC CCC TTG AGG GCG GCA GAA TCA GTC CAA TAC CAA TAC ATA AGA CAG AAA CAT CGG AGT ATA GCA TTC AAT CTA
1840 Leu Val Leu Ile Phe Leu Arg Ala Asn Ala Glu Ser Val Tyr Glu Tyr Met Arg Glu His Pro Ser Ile Ala Phe Asn Leu
5365 AGG ATA AGT GAG ATG AGG Glu Gdt Gdt GAG GCA AGG GGA ATA ACC TAT GCC TCT TAC GGT TAC TTT TGC CAG ATG TCA CAA CCC
1866 Arg Ile Glu Glu Met Lys Glu Glu Arg Met Ala Ser Tyr Glu Ile Thr Tyr Ala Ser Tyr Glu Tyr Phe Cys Glu Met Ser Glu Pro
6019 AGG CGU AGA GGC GCA AGG GAA TAT TCC TTT ATA TTC CAA GAA CAA CTC QCA ATC ATG
1896 Lys Leu Arg Ala Asn Met Val Glu Tyr Ser Pro Ile Phe Leu Asp Glu Tyr His Cys Ala Thr Pro Glu Glu Lys Ile Met

6113 GCG AAG ATC CAC AGA TCC TCA GAA AAC CGG GGG GGT GAA GCA GTC ATG ACA GCG ACA GCA GTC GCA GGC ACA ACC ACT GCG CAG
 1924 Gly Ile His Arg Phe Ser Glu Asn Leu Arg Val Gai Met Thr Ala Gly Thr Val Thr Pro Ala Gly Thr Val Thr Gly Gin 19
 6217 AAA CAC CCT ATA GAG GAA TTT ATA GCC CGG GAA GTG ATG AAA GGA GAA GAC TGG QGT TGT GAG TAC TTA GAT ATT GCC GOA CTO
 1952 Lys His Pro Ile Glu Glu Phe Ile Ala Pro Glu Val Met Lys Gly Glu Asp Leu Gly Ser Glu Tyr Leu Asp Thr Ala Gly Leu 19
 6301 AAC ATA CCA GGA GAG ATG AAC ATG CTA GTT TTT GTC CCC ACC AGG AAC ATG GCG GAA GAG GCA AAG AAA TTG
 1980 Lys Ile Pro Val Glu Glu Met Lys Asn Asn Met Leu Val Pro Thr Arg Asn Met Ala Val Glu Ala Val Lys Leu 20
 6405 AAC GCC AAA GGA TAC AAC TCG GGC TAC TAC TAC TAC TAC AAC GGA GIG GAC CCA TCT AAC CTC AGG GTC GTO AGC TCC CCA TAC
 2006 Lys Ala Lys Gly Tyr Asp Ser Glu Tyr Tyr Ser Glu Gln Asp Pro Ser Asp Leu Asp Pro Ser Glu Ser Gln Ser Pro Tyr 20
 6449 GTC GTO GTC UCA ACC AAC GCA ATA GAA TCA GAA TCO GTC CCC GTC CTC AAC GCA GTC AAG CTC AAG TGT GAA
 2036 Val Val Val Ala Thr Ala Ile Glu Ser Gly Val Thr Leu Pro Asp Leu Asp Val Val Val Asp Thr Gly Leu Lys Cys Glu 20
 6553 AAA AGA ATC CGA CTG TCA CCC AAC ATG CCT TTC ATA GTO AGC GCG AAC ATA ATG GCA GAA ATG GCA GAA CCC CAG
 2064 Lys Arg Ile Arg Leu Ser Pro Lys Met Pro Phe Ile Val Thr Gly Leu Lys Arg Met Ala Val Thr Ile Glu Gln Ala Gin 20
 6637 AGA AGA GGA AGG GTT GGA AGA GTG AAG CCC GGG AGA TAC TAC AGG AGT CAA GAA ACA CCTT GTC GDC TCT AAA GAC TAC CAT TAT
 2092 Arg Arg Gly Arg Val Gly Arg Val Lys Pro Gly Arg Tyr Tyr Arg Ser Gln Gln Thr Pro Val Gly Ser. Lys Arg Tyr His Tyr 21
 6721 GAC TTA TTO CAA GGC CAG AGG TAC GGC ATA GAA GAT GGG ATA AAT ATC ACC AAA TCC TTC AGA GAG ATG AAC TAC GAC TGG AGC
 2120 ATP Leu Gln Ala Gln Arg Tyr Gly Ile Glu Asp Gly Ile Thr Lys Ser Phe Arg Glu Met Asn Tyr Asp Thr Ser 21
 6805 CTT TAT GAO GAA GAT AGC CTC ATG ATC ACA CTC GAA ARC CTC AAC CTC AAC CTC GAA GAO CTC CCG AAG GCA GTC
 2144 Lys Tyr Gln Gln Asp Ser Leu Met Ile Thr Gln Asn Leu Asn Asp CTC GAA GTC GAA GTC GAA GTC GAA GTC GAA GTC
 6889 AAA ATG ATA ATG GCC AGG AAC AGC AAC CAC CCA ATT CAA CTC AGG TAT AAC AGC TAC GAG AGA CAG AGT CGG GTC TTA TTC
 2176 Lys Asn Ile Met Ala Arg Thr Asp His Pro Glu Pro Ile Gln Leu Ala Tyr Asn Ser Tyr Glu Thr Gln Val Pro Val Leu Phe 697
 6973 CCA AAA ATA AGA AAA GAA GAG GTO ACT GAT ACT TAC GAT IAT TAC ACC TPC CTC AAC GCA AGA AAA TTG GGA GAT GAC GTC
 2204 Pro Lys Ile Arg Asn Ile Glu Ile Glu Thr Asp Thr Val Gln Asn Thr Val Gln Asn Gln Asp Val Pro 705
 7057 CCC TAC GTO TAT GCT ACA GAA GAT GAO GAC TGA GCA GTC GAA CTC TTA GAC CTA GTC GAA GAA GCA AAC CAA GCA GGC ACC
 2232 Pro Thr Val Thr Ala Thr Gln Asp Ser Leu Ala Val Gln Leu Leu Gln Asp Thr Pro Asp Pro Gln Asn Gln Gln Gln 7255

8149 TTT GTG AAA AAC TTC TTA GAC GAA CTC ACC GCC CGG ACC GAC GAA CTA GTC AAA GAG AGC CCT GAG AAA ATA ATA ATG GCT TTG TCG GAA 8150
2596 Phe Val Lys Alan Pro Glu Ala Arg Lys Pro Leu Val Thr Asp Glu Leu Val Lys Glu Ser Pro Glu Ile Met Asp Lys Leu Pro Glu 2621

8231 GCG GTC CAA AGC GCG AAC CCT CTT AGA TTA GTG TAC CTC TAT GCA GTC ATT GAA GGG TGT GAA AAA GAG GCG TGC GAA 8231
2624 Ala Val Glu Val Val Tyr His Leu Tyr Val Val Tyr Lys Gly Trp His Leu Ala Lys Glu Leu 2651
8317 GGC CAA AGA AGA GGC GCG AGG AAC CCT TTC ACC TGC ATA ATG TTC GAA CTC GAA GTC GAA GAC AGT GAG GCA AAA 8405
2652 Ala Glu Arg Thr Ala Gly Arg Asn Lys Pro Thr Leu Ile Met Phe Glu Ala Val Glu Leu Lys Val Asp Ser Glu Gly Lys 2671

8401 ATP CGC CGG CAA CTC AGC AAC TAC ATA CTA GAG AAC TAC TGT GCA CGC AAC GAT GAC AAC TAC CTC CGA 8484
2680 Ile Arg Glu Ser Ser Asn Tyr Ile Leu Glu Leu Lys Pro Arg Asp Asn Ile Lys Ser Val Arg Glu Ile Ala 2707

8485 ATC AGC TGG DCC CCC DCC TCC TTT AGT TGC GAT TGG ACA CCA GAT GAC AGA ATA GGG CTT CCC CAT GAC AAC TAC CTC CGA 8486
2708 Ile Ser Trp Ala Pro Ala Pro Pro Ser Cys Asp Tep Thr Pro Thr Asp Ile Glu Leu Pro His Asp Asn Tyr Glu Arg 2735

1 8569 GTG GAG ACA AAC TGC CCC TGT GGT TAC AGG ARG AAA AGC GGA AAA AAC TGC GCT GGA GAA TGG CTT CTG GAG GAA GGG GAT 8552
2736 Val Glu Thr Lys Cys Pro Cys Glu Tyr Arg Met Lys Ala Val Lys Asn Cys Ala Glu Glu Leu Glu Glu Gly Glu 2763

8653 TCA TTC CTC TGC AGA AAC TAA TTC GGT AGA GGC TCA CAA AAC TAC AGG GTO AGA AAA TAC TAT GAT GAC AAC TTA TCA GAA ATA 8716
2764 Ser Phe Leu Cys Arg Asn Lys Pro Glu Arg Glu Ser Glu Asn Tyr Arg Val Thr Lys Tyr Tyr Asp Asn Leu Ser Glu Ile 2791

8737 AAA CCA GTO ATA AGA ATG CAA CGC CAC GTO GAA CCG TAT TAC AAC GGC ACT ACT AAC AAC GAT TTT AAC AAC ACT AAA ACC 8820
2792 Lys Pro Val Ile Arg Met Glu Glu His Val Glu Lys Val Tyr Tyr Lys Glu Ala Thr Ile Lys Leu Asp Phe Asn Asn Ser Tyr Thr 2819

8821 GTA CTG GCA ACT DAC AAA TCA GTO GAO DAC CAC TCC ACC CTC GGT AGG GCA CTC AAC AGG TAC AGC AAC GCT GGA TAT CGA GGG 8904
2820 Val Leu Ala Thr Asp Lys Trp Glu Val Asp His Ser Thr Leu Val Arg Ala Leu Lys Arg Tyr Thr Glu Asp Glu 2847

8905 GCG TAT GTG GGT GAG AAA CCT AAC CAT CTC ATA CGA AGA GAC ATT ACC AAA GAC AAC GCG TCG AAC GTC TGC TTC ATC 8946
2844 Ala Tyr Leu Glu Glu Lys Pro Asn His Leu Ile Glu Arg Asp Cys Ala Thr Ile Thr Lys Asp Lys Val Cys Phe Ile 2875

8989 AAA ATG AAG AGA AGG TGT AGC TTC ACT TAT GAC CTA TCC CTC CAC AAC CTT ACC CGG CTA ATC GAA TGG GTC CAC AAC AAC 9072
2876 Lys Met Lys Arg Glu Cys Ala Phe Thr Tyr Asp Leu Ser Leu His Asn Leu Thr Arg Leu Ile Glu Leu Val His Asn Asp 2903

9071 CTC GAA GAT AGA GAA ATC ACC CCT ACT AGG GTC AGA ACC TGG GCT GCA TAC AGA ATT GAA GAC ATA GGD ACC ATA AAA 9156
2904 Leu Glu Asp Arg Glu Ile Pro Ala Val Thr Val Val Tyr Thr Trp Leu Ala Tyr The Val Asn Glu Asp Ile Glu Val Lys 2931

9157 CCA ACT TTT GAA GAA AGG GTO AGC CCA GCG GAO AAA CGA GAG GAO GAA GTC TGG CAA CCT ACT GTC GCG GCA AGA GAT GAA 9240
2932 Pro Thr Phe Glu Glu Lys Val Thr Pro Glu Lys Val Val Val Val Val Pro Ala Val Val Asp Thr Thr Asp Val 2959

9241 GGC GTG ACC GTG GAA ACC TCT ACT ATG A-T ACA OGG OAG ACC CCC ACA ACA TTT ACC AGC TTA GGT TCG GAC TCG AAC 9224
2960 Ala Val Thr Val Val Glu Glu Thr Ser Thr Met Thr Glu Glu Thr Pro Thr Phe Thr Ser Leu Glu Ser Asp Ser Lys 2961
9325 GTC CGA CAA GTC CTC AAC GTC GTC GAC GAT GGT GAT TAC TAC CCC AAC CCT ATT CAG CAG AGA OCA AAC CTC CTC GAA GCT ATA 9404
2988 Val Arg Glu Val Leu Lys Val Glu Val Asp Asp Glu Glu Tyr Pro Glu Pro Glu Asn Glu Glu Ala Ser Leu Leu Ala Ile 3015
9409 CAA GGT GTC GAT GAA AGG GAA GTC GTC ATA CTC GGA GTC CTC ATA CTC GAA GTC ACC TCC AAC ATT AGG DTC AAC ACC GCA AAG AAC ATG 9424
3016 Glu Glu Val Asp Glu Arg Pro Ser Val Leu Ile Leu Glu Ser Asp Lys Ala Thr Ser Asn Arg Val Lys Tyr The Ala Lys Ala Val 3013
9493 AAC ATN TAT AGG AGC AGC CTC GAA CTC AGA GAA ATG AAA AGG GGA AAA ATC CTC GAA GTC TCG TCT AGA GTC 9576
3044 Lys Ile Tyr Arg Ser Arg Asp Pro Leu Glu Leu Arg Glu Met Met Lys Arg Glu Lys Ile Leu Val Ala Leu Ser Arg Val 3011
9577 DAT ACC ACT CTC CTC AAA TTC GTC GAT GAT TAC AAC GGC ACC TCC CTC ACC AGA GAG ACC CTC GCA TTA AGT CGT AAC CCT 9460
3072 Asp Thr Ala Leu Leu Lys Phe Val Asp Tyr Lys Glu Thr Phe Leu Thr Arg Glu Thr Leu Glu Ala Leu Ser Leu Glu Lys Pro 3059
9661 AAQ AAA AGA GAC ATA ACT AAA GCA GCA GCA CAA TGG CTC CTC AAC CTC AAC GCA GAA GAA GAA GAA GAA GCA 9744
3100 Lys Lys Arg Asp Ile Thr Lys Ala Glu Ala din Trp Leu Leu Arg Leu Asp Glu Ile Glu Glu Leu Pro Asp Trp Ala 3127
9745 GCC AAC GAA CCC ATA TTT CTA GAA GCC AAC ATT AAA CGT GAC AAC TAT CAC CTC QTA GCA AAC ATA GCA AAC ATT AAA Glu AAA 9428
3128 Ala Lys Glu Pro Ile Phe Leu Glu Ala Asn Ile Lys Arg Asp Lys Tyr His Leu Val Glu Asp Ile Ala Thr Ile Lys Glu Lys 3155
9429 GCC AAA CAA CTC GGG GCA ACA GAC TCC ACA AAC ATA TCA AAC GAG GTC GGC GGG AAA GTC TAT TCT ATG AGG CTC AGT AAC TGG 9912
3156 Ala Lys Glu Leu Glu Ala Thr Asp Ser The Lys Ile Ser Lys Leu Val Glu Ala Lys Val Tyr Ser Met Lys Leu Ser Asn Trp 3163
9913 GTC ATA CAA GAA GAG AAC AAA CAA GGC AGC CTC QCC CCC CTC CTC CAA CAG TGT GAA GAG CTC CTC CAA CCC GGG AAC AAC 9996
3164 Val Ile Glu Glu Glu Asn Lys Glu Glu Ser Leu Ala Pro Leu Phe Glu Glu Leu Glu Glu Glu Glu Glu Lys 3211
9997 AAA ACC AGA CAT ATG GTC TCA GGC TAC CAA CTC GCT CAA AAC GAG AAC TGG GTC CCA GTC AGT TGC CAC GTC TAC ATG GGA ACC ATA 10000
3212 Lys Thr Thr His Met Val Ser Ala Tyr Glu Leu Ala Glu Glu Asn Trp Val Pro Val Ser Cys His Val Phe Met Glu Thr Ile 3239
10041 CCC GCA AGA AGA ACC AAC AGT CAT CCT TAT GAG GCA TAC CCT ATT AAC CTA AAC GAG TGG GTC GAT GAA CAT AAC GAG GCA TTA 10164
3240 Pro Ala Arg Arg Thr Lys Thr His Pro Tyr Glu Ala Tyr Val Lys Leu Arg Glu Leu Val Asp Glu His Lys Met Lys Ala Leu 3267
10165 TGT GAC GAA TCA GGC CTA ACT AAC CAC AAC GAA TGG GTC ATT AAC AGT TAT CAA GAA AAC CTC AGG ACC AAA AAC CAC ATG 10244
3266 Cys Glu Glu Ser Glu Leu Ser Lys His Asn Glu Trp Val Ile Glu Lys Val Lys Tyr Glu Glu Asn Glu Arg The Lys His Met 3295

PRINT OF DRAWN
AS ORIGINALLY F.

10249 TGA AAC CCC GGA AAG GTC GCG GAC CAA CTC CAC AGA GAA GGG TAC AGG CAC AAT GTC TAT TAT NAG ACA ATA GGT TCA GTC ATG 1030
1296 Leu Ala Pro Gly Lys Val Ala Glu Glu Leu His Arg Glu Glu Tyr Arg His Asn Val Tyr Asn Lys Thr Ile Gly Ser Val Met 1312.
10331 ACA GCA ACT GTC ATC AGG CTC GAG AAG TTA CCT GTC GTC AGG DCC CAA ACA GAC ACA ACC AAC TTC CAC GCA GCA ATA AGG GAT 10381
3324 Thr Ala Thr Ile Arg Leu Glu Lys Leu Pro Val Arg Ala Glu Thr Asp Thr Thr Asn Phe His Glu Ile Asn Arg Asp 3335.
10417 AAA ATA GAC AAC GAG GAA CCA CGA ACC CCT GGC TTA CAT AAC TAA GAA GTC TCC AAT GCA TTA AAA AGA CCC GAG 10464.
3352 Lys Ile Asp Lys Glu Glu Asn Leu Glu Thr Pro Glu Leu His Lys Ile Leu Met Glu Val Phe Asn Asn Leu Lys Arg Pro Glu 3379.
10501 CTT GAG GCC TCT TAT GAC GCT GTC GAT TGG GAG GAA ATA AAC AGG AGG GGT GCT GGT TTC TCC GAA CGC 10586
3380 Leu Glu Ala Ser Tyr Asp Ala Val Asp Trp Glu Glu Leu Glu Arg Gly Ile Asn Arg Lys Glu Ala Gly Phe Glu Arg 3407.
10585 AAG AAC ATA GGA GAG GTC TTA GAT TGG GAA AAA GTC GAA GAG GAT ATT AAC AGT TGG AAA AAA GGT AGG AAC ATC AGA 10664.
1401 Lys Ala Ile Glu Glu Val Leu Asp Ser Glu Lys Asn Lys Val Glu Glu Val Val Ile Asp Ser Lys Lys Glu Arg Asn Ile Arg 3415.
10669 TAC TAC GAA ACT GCA ATC CCG AAA AAC GAG AGG GAT GTC ATT GAT AAC TGG ACC GTC GAA GAG GTC GAA GAT GAG AAG 10752
3436 Tyr Tyr Glu Thr Ala Ile Pro Lys Asn Glu Lys Arg Asp Val Asp Asp Trp Thr Ala Glu Asp Phe Val Asp Glu Lys Lys 3463.
10753 CCA AGA GTC ATA CAA TAC CCT GAG GCT AAA ACT AGG TGG GCT ATT ACT AAC GTC ARG TAC AAA TGG QTC AAA CAG AAC CCA GTT 10836
3464 Pro Arg Val Ile Glu Tyr Pro Glu Ala Lys Thr Arg Leu Ala Ile Thr Lys Val Met Tyr Lys Trp Val Lys Glu Lys Pro Val 3491.
10837 GTC ATA CCC GGT TAT GAA GGT AAG ACA CCC CCG TTT CAA ATT TTT GAC AAA GTC AAC GAG AAA GAA TGG GAT CAA TCC CAA AAC CCT 10920
3492 Val Ile Pro Glu Tyr Glu Glu Lys Thr Pro Leu Phe Glu Ile Phe Asp Lys Val Lys Lys Glu Trp Asp Glu Phe Glu Asn Pro 3519.
10921 GTC GTC AGC TTT GAT ACC AAA GCG TGG GAT ACC CAG GTC ACC ACA AGG GAT TGG GAT CTA ATA AGG DAT ATA CAG AAC TTC 11004
3510 Val Ala Val Ser Phe Asp Thr Lys Ala Trp Asp Thr Glu Val Thr Thr Arg Asp Leu Glu Leu Ile Arg Asp Ile Glu Lys Phe 3547.
11005 TAT TTT AAA AAC AAA TGG AAA TCA ATT AAC ACC CTA ACC AAC 11084
3544 Tyr Phe Lys Lys Lys Lys Trp His Lys Phe Ile Asp Thr Leu Thr Lys His Met Ser Glu Val Pro Val Ile Ser Ala Asp Glu Gln Ser 3575.
11049 GTC TAC ATA AGG AAA GGT CAG AGA AAC 11172
3576 Val Tyr Ile Arg Lys Glu Glu Arg Asp Glu Asp Glu Ser Glu Glu Asp Glu Asp Glu Asp Glu Asp Glu Asp Glu Asp Glu 3603.
11173 TAT GCC TGC TGC GAG GCA AGC ACC GGG GTC AAC CCC TAC AAC AGT ATT GAC AGA GTC GCA AAC CAT GTC TGC GGG GAT GAT GAT 11246
3604 Tyr Ala Phe Cys Glu Ala Thr Glu Val Pro Tyr Lys Ser Phe Asp Arg Val Ala Lys Ile His Val Cys Glu Asp Asp Glu Phe 3631.

11257 CTG ATT ACC GAA AGA GCT CTC GGT GAG AAA TTT GCG AGT AAA GGA GTC GAA GAT CTA TAC GAA CCT GCG AAG CCT CAA AAG ATC
1632 Leu Ile Thr Glu Arg Ala Leu Glu Glu Lys Phe Ala Ser Lys Glu Val Glu Glu Lys Pro Glu Lys Ile 116

11341 ACT GAA GGG GAC AAC ATG AAA GAA GCA TAT GAT CAG TTT GAT GAT ATC GAA TTC TCC CAT ACA CCA GTC AAG TGG TCA
3660 Thr Glu Glu Asp Lys Met Lys Val Ala Tyr Glu Phe Asp Asp Ile Glu Phe Cys Ser His Thr Pro Val Glu Val Arg Trp Ser 117

11425 GAC AAC ACT TCC AGC TAC ATG CGG GGA AGG AAC AGC ACT ACA ATC CTC GCT AAA ATG CCT ACA AGU TGG GAT TCC AGT GGT GAG
3668 Asp Asn Thr Ser Ser Tyr Met Pro Glu Arg Asn Thr Thr Ile Leu Ala Lys Met Ala Thr Arg Leu Asp Ser Ser Gly Glu 11691

11509 AGG GGT ACT ATA GCA TAT GAG AAG GCA GTC AGC TGC TCC AGC TTT TGG ATG TAC TCC TGG AAC CCA CTC ATC AGA AGG ATA TGC
3716 Arg Glu Thr Ile Ala Tyr Glu Lys Ala Val Ala Phe Ser Phe Leu Leu Met Tyr Ser Trp Asn Pro Leu Ile Arg Ile Cys 11592

11593 TTA CTC GTC TGA TCA ACT GAG TTO CAA GTC AGA CCG AGG TCA AAC ACC TAT TAC TAT GAA GGG GAC CCA ATA TCC GCT TAC
3744 Leu Leu Val Leu Ser Thr Glu Leu Gln Val Asp Arg Pro Glu Lys Ser Thr Thr Tyr Tyr Glu Asp Pro Ile Ser Ala Tyr 11676

11677 AGG GAA GTC ATT GGC CAC AAT CTC TTT GAC CCT AAA AGA AGA AGC GTC GAA AAC CTA GCA AGG TTA ATT CTC AGC ATG TCC ACG
3772 Lys Glu Val Ile Glu His Asn Leu Phe Asp Leu Lys Arg Thr Ser Phe Glu Lys Leu Alan Lys Leu Ser Met Ser Thr 11760

11761 CTC GCG GTG TGG ACT AGA CAC ACT AGC AAC TAA CTA CAA GAT TGT GTC AAC GTC ACC AAA GAG GGC AAC TGG TGC GTC
1600 Leu Glu Val Thr Arg His Thr Ser Lys Arg Leu Leu Glu Asp Cys Val Asn Val Glu Thr Lys Glu Glu Asn Thr Leu Val 11644

11845 ATT GCA GAC AGA CTA GTC AGT ATG AAC GCA AAC AGG TAT ATA CCT GCA GAA GGC CAC ACC CTA CAA GGG AAA CAT TAT GCA
3824 Asn Ala Asp Arg Leu Val Ser Ser Lys Thr Glu Asn Arg Tyr Ile Pro Asp Glu His Thr Leu Glu Glu Lys His Tyr Glu 11924

11939 GAA CTG ATA CTG GCA AGG AAA CCG ATC GAT AAC TTT GAA GGG ACC GAT AGG TAT AAC TTG GGG CCA ATA GTC AAC GAA GTC TGG
3846 Glu Leu Ile Leu Ala Arg Lys Pro Ile Glu Ala Phe Glu Glu Thr Asp Arg Tyr Asn Leu Glu Pro Ile Val Asn Val Val Leu 12012

12013 AGG AGA CTA AAA ATT ATG ATG AGC CTC ATA AGG GGG GGG GTC GAA TGG TCA GCA ATT GTC ATT GTC ATT GTC ATT GTC ATT
3884 Arg Arg Leu Lys Ile Met Met Ala Leu Ile Glu Arg Glu Val End 12014

12097 CCC TAT TGT AAA TAA CAT TAA CTT ATT ATG ATT TTA GAT ACT ATT ATT TAT TTA ATT ATT TAT TTA TGG ATT GAG CAA GTC CTC
12181 GTC CAA AAC ACT ACC TCA TGT PAC CAC ACT ACA CTC ATT TTA ACA GCA CTT TAG CTG GAG GGA AAA CCC TCA GGT CCA CAG TGG GAC 12180

12265 TAA GGT ATT TGC CTA AGC GC 12264 12266

Figure 3. Nucleotide sequence.

HCV

AGTGACAACGGCACTAATGGTATTCAAGCGAGCCATGTATCTTAGAGGGGTTAACAGG
AGCTTACATGGGATCTGGCCCGAGAAAATATGCAAGGGGTCCCCACTCATCTGGCC
ACTGACACGGAACTGAAAGAGATAACGGGATGATGGATGCCAGCGAGAGGACAAAC
TATACTGCTGCTGAGGTTACAAAGACATGAATGAAACAAACATGGATGGTGTAACTGG
TACAACATAGACCCTTGGATTCAAGTTAATGAACAGGACCCAAACAAATTGACAGAA
GGCCCTCCAGATAAG

Deduced amino acid sequence.

HCV S D N G T N G I Q R A M Y L R G V N R S
L H G I W P E K I C K G V P T H L A T D
T E L K E I R G M M D A S E R T N Y T C
C R L Q R H E W N K H G W C N W Y N I D
P W I Q L M N R T Q T N L T E G P P D K

SEARCHED - INDEXED - SERIALIZED - FILED
JULY 10 1986 5060

Figure 4

